KORYAKIN, V.I.; SOKOLOVA, A.I.; Prinimali uchastiye; VODOLAZOV, P.N; Zabolotskiy, M.V.; ZAKHAROVA, A.V.; KLINSKIKH, Ye.V.

Dry distillation of wood as a potential source of furfural.

Gidroliz.i lesokhim.prom. 13 no.5:3-6 '60. (MIRA 13:7)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskoiy institut.
(Furaldehyde) (Wood distillation)

\$/081/62/000/005/017/112 B155/B110

AUTHORS: Sokolova, A. I., Khramova, V. V.

TITLE: Some results of biogeochemical investigations

PERIODICAL: Referativny; zhurnal. Khimiya, no. 5, 1962, 118, abstruct 509 (Tr. Sverdl. Jorn. in-ta., no. 40, 1961, 107 - 115)

TEXT: Results are presented of a radiometrical and biogeochemical study of U are development, age-correlated with the lower Permian tuff lavas of liparite perphyries. The technique used in the work is described. No are-correlation of abnormally high concentrations of U and Ra has been established with any definite type of plant. Variations in the U contents of plants are determined to a considerable extent by the thickness of the loose rocks. Compared with U and Ra in plants, the coefficient of concentration of U in mineralized regions is 50,000 and of Ra 100 - 500 clarke units. Compared with the local biochemical background, the accumulation of U is 20 - 30. In these regions misshapen plant forms and growth stunting are observed. Abstracter's note: Complete translation.

Card 1/1

Scholan, till

USSR/Microbiology - General Microbiology

F-1

Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68401

Author

: Sokolova, A.I., Rautenshtein, Ya.I.

Title

: Comparative Study of the Activity of Catalase and some Other Biochemical Indicators in Phagoresistant and

Phagosensitive Forms of Actinomycetes.

Orig Pub

: Mikrobiologiya, 1956, 25, No 4, 466-470.

Abstract

: The comparative study of catalase activity in spores and mycelia of phagosensitive culture (PhS) (Russian letters FCh) Actinomyces glooisporus streptomycini and in the variant experimentally obtained from this culture, resistant to 3 types of actinophage (PhR) (Russian letters FU), it was shown that a greater activity of the catalase is noted in spores and young mycelium of the PhR form. The spore of PhR culture also contain more of the soluble form of catalase than do the PhS. Fixation of mycelium of the actinomycetes by alcohol brings on a significant

Card 1/2

Sast. Microbiology AS 1155 C

USSR/Microbiology - General Microbiology

F-1

Abs Jour : Referat Zhurn - Biol. No 16, 25 Aug 1957, 68401

lowering of catalase activity in PhS and PhR cultures. The catalase inhibitor sodium nitrate similarly depresses the action of this enzyme in PhR and PhS cultures. DNK in mycelium of 24 hour growth of PhR cultures is more resistant to action of oxygen than in PhS.

Card 2/2

- 13 -

KRASIL'NIKOV, N.A.; BELOZERSKIY, A.N.; RAUTENSHTEYN, Yn.I.; KORRNYAKO, A.I.;
NIKITINA, N.I.; SOKOLOVA, A.I.; URYSON, S.O.

The antibiotic grisein (grisemin) and its producers [with summary in English]. Mikrobiologiia 26 no.4:418-425 J1-Ag '57. (MIRA 10:12)

1. Institut mikrobiologii AN SSSR i Institut biokhimii im. A.N.Bakha AN SSSR, Moskva.

(ANTIBIOTICS.

grisemin, prod. organisms (Rus))

KORENYAKO, A.I.; KRASIL'NIKOV, N.A.; NIKITINA, N.I.; SOKOLOVA, A.I.

Actinomycetes of the fluorescent group. Trudy Inst. microbiol.
no.8:133-159 '60. (MIRA 14:1)

1. Institut mikrobiologii AN SSSR.

(ACTINOMYCETALES)

KRASIL'NIKOV, N.A.; KORENYAKO, A.I.; SOKOLOVA, A.I.; NIKITINA, N.I.; KIRILLOVA, N.F.

Interspecific antagonism as a species characteristic. Mikrobiologiia 32 no.137-12 863 (MLA 1783)

1. Institut mikrobiologii AN SSSR.

VASIL'YEVA, M.G.; SOKOLOVA, A.L.

Determination of boron in technical boron. Zhur.anal.khim. 17 (MIRA 15:8) no.4:530-531 Jl '62.

1. Physico-Technical Institute, Academy of Sciences of the Georgian S.S.R., Sukhumi.
(Boron-Analysis)

KOT, Yu.D.; SOKOLOVA, A.L.

Evaporation and crystallization of massecuite from the second boiling product. Sakh.prom. 36 no.11:7-11 N '62. (MIRA 17:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti.

THE PROPERTY OF THE PROPERTY O

NERONOV, V.M.; SOKOLOVA, A.L.

Use of fur procurement data for mapping the quantitative distribution of game animals on the territory of the Soviet Union. Biul. MOIP. Otd. biol. 68 no.2:5-17 Mr-Ap '63. (MIRA 17:2)

VASIL'YEVA, M.G.; LALYKINA, V.M.; MAKHARASHVILI, N.A.; SOKOLOVA,

A.L.; SOYFER, V.M.; TSKIRIYA, N.G.; BARON, Ye.Ye.,
doktor khim. nauk, red.

[Analysis of boron and its inorganic compounds] Analiz bora i ego neorganicheskikh soedinenii. Pod red. E.E.Baroni. Moskva, Atomizdat, 1965. 267 p. (MIRA 19:1)

YEREMAN, A.L.; SOKOLOVA, A.L.

Formation of thin fraction minerals in the Upper Fliodene ach

tuffs of the Balkhan Range region in southwestern Turkmenia. Lit. i pol. iskep. no.6:34-53 N-D '65. (MIRA 18:12)

1. Gewlegicheskiy institut AN SSSR, Moskva. Submitted January 13, 1965.

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CHECLOVA, L. M. "Obtaining high-grade currot and lost garden seed," Bohlady (Posh. s.-kh. ahad.in. Timiryazeva), Issue 9, 1949, r. 94-95

MS: U-5240, 17, Icc. 63, (Patopis Ulurnal 'nykh Statey, Ic. 25, 1949).
```

M-5 : USSR Country CATEGORY : ABS. JOUR. : RZBiol., No. /9 1959, No. 87077 : Sokolova, A. M. RORTUA : Moscow Agricultural Academy Imeni K. A. INST. : Effect of Spray-Feeding on Growth and De-TITLE velopment of Seed Plants and Roots of Carrots and Beets. ORIG. PUB. : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957, No 31, 38-42 1 Spraying of seed plants of carrots with boric acid (in concentrations of 0.006 and 0.012%) accelerated their maturation by 4-8 days, increased yield of seeds per single plant, had an effect on subsequent yields of roots obtained from these seeds, and eliminated completely phoma disease of seed plants and roots of the carrots. Spray feeding of seed plants of beets with B at concentration of 0.2%, P -- 0.5% and Mn -- 0.2%, improved seedage quality of seeds and increased their yield. Soaking of seeds of carrots and beets, for 12 hours, in 0.1% solution of boric acid and 0.2% solution of manganese sulfate, increased yield of roots. -- Ye. M. Tsvetayeva. CARD:

SOTOTOTA

Effect of certain meteorological factors in hepertension. Terap. (MLRA 8:2) arkh. 26 no.5:25-29 S-0 154.

1. Iz kafedry propedevtiki vmtrennikh bolezney (zav. prof. S.V. Shestakov) Astrakhanskogo meditsinskogo instituta i terapevticheskogo otdeleniya basseynovoy bol'nitsy (glavnyy vrach N.V. Shubina) Nizhne-Volzhskogo zdravotdela. (HYPERTENSION, physiology.

(HYPERTENSION, physiology, meteorol. aspects) (CLIMATE, meteorol. aspects in hypertension)

SOKOLOVA, A M

112-1-1056

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 1, p.167 (USSR)

Sinadskiy, S.Ye., Sokolova, A.M.

Automatic welding of sleeves (Avtomaticheskaya privarka AUTHOR :

TITLE: shtutserov)

PERIODICAL: Sbornik: Vopr. svarki v energomashinostroyenii i metallurg.proiz-ve, Moscow, Mashgiz, 1955, pp.100-119

Automatic welding under flux produces a welded seam of high quality: deep penetration, uniformity and durability. ABSTRACT:

This permitted replacing the multilayer seam with a singlelayer or double-layer with smaller legs, but with the same rated height and same or higher durability. Automatic

welding requires high precision in producing and assembling the sleeves because in this way, correct disposition of

the seam is provided. Welding apparatus AOU -2.3 AOU -4 of UHNNTMAIL construction are each designed for welding on

sleeves of only one size. The machined surface of the free

Card 1/2

CIA-RDP86-00513R001652110010-4 "APPROVED FOR RELEASE: 08/25/2000

SUKULUVA, AM

AID P - 5204

: USSR/Engineering Subject

Pub. 107-a - 3/13

Novozhilov, N. M., Kand. of Tech. Sci. and A. M. Sokolova, Card 1/1ENGLISHED STATE CONTRACTOR STATE Authors

Eng.

Welding with electric rivets in the atmosphere of carbon Title

dioxide.

: Svar. proizv., 7, 10-13, J1 1956 Periodical

The authors describe their experimental work in welding Abstract

with electric rivets - melting electrodes in the carbon dioxide atmosphere - and assert that this method has advantages over the welding with electric rivets under fluxes which is widely used in the industry. Five tables,

7 photos, 2 drawings; 4 Russian references (1953-55).

Central Scientific Research Institute of Machine-Building Institution:

Technology (TsNIITMASh), with which both authors are

affiliated.

No date Submitted

BRINBERG, I.L., kandidat tekhnicheskikh nauk; SOKOLOVA, A.M., inzhener.

Organizing centralized machinery production for mechanization and automatization of arc welding. Vest. mash. 36 no.6:68-71 Je '56. (MLRA 9:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut tyazhelogo mashinostroyeniya.

(Electric welding)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652110010-4"

The Control of the Co

135-58-7-3/20

AUTHOR:

Novozhilov, N.M., Candidate of Technical Sciences, and

Sokolova, A.M., Engineer

TITLE:

Development of Electrode Rods for Welding Low-Carbon and Low-Alloy Steels in Carbon Dioxide (Razrabotka elektrodnykh provolok dlya svarki malouglerodistykh i nizkolegirovannykh staley

v uglekislom gaze)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 7, pp 10-14 (USSR)

ABSTRACT:

Three kinds of electrodes and their welding properties were investigated by TsNIITMASh and the following conclusions are made: Electrodes containing aluminum and titanium have no advantages over silico-manganese rods, as aluminum and titanium in "critical" concentrations are able to deteriorate the quality of welds. Satisfactory results in welding low-carbon steels in carbon dioxide can be obtained by using electrode rods containing silicon and manganese in the following proportions: 0.05-0.12 % C, 0.6-1.0 % Si and 1.4-2.4 % Mn. This composition can be used for welding various low-alloy steels in carbon dioxide. The addition of alloying elements such as Cr, Ni, Mo, Cu, etc., having a feeble affinity with oxygen, provides various weld properties. On the basis of these re-

Card 1/2

135-58-7-3/20

Development of Electrode Rods for Welding Low-Carbon and Low-Alloy Steels in Carbon Dioxide

sults, obtained by experiments, TsNIITMASh developed the "Sv-O8GSA" and "Sv-O8G2SA" electrode rods, ensuring good weld qualities and diminished tendency toward pore and crack

formation.

There are 9 tables, 1 diagram, 2 graphs, 2 photos, 9 Soviet and 4 English references.

TsNIITMASh ASSOCIATION:

1. Welding electrodes—Development 2. Steel-Welding

Card 2/2

CIA-RDP86-00513R001652110010-4" APPROVED FOR RELEASE: 08/25/2000

NOVOZHILOV, Nikolay Mikhaylovich; SOKOLOVA, Aleksandra Mikhaylovna;
RAGAZINA, M.F., inzh., ved. red.; SHTERLING, S.Z., dots., red.;
SOROKINA, T.M., tekhn. red.

[Automatic and semiautomatic welding procedures for low-carbon and low-alloy steels using a consumable electrode in an atmosphere of carbon dioxide] Tekhnologiia avtomaticheskoi i poluavtomaticheskoi svarki malouglerodistykh i nizkolegirovannykh stalei plaviashchimsia elektrodom v srede uglekislogo gaza. Moskva, Filial shchimsia elektrodom v srede uglekislogo gaza. Moskva, Filial vses. in-ta nauchn. i tekhn. informatsii, 1958. 18 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 12. (MIRA 16:3)

CIA-RDP86-00513R001652110010-4 "APPROVED FOR RELEASE: 08/25/2000

25(1)

sov/135-59-5-3/21

AUTHOR:

Novozhilov, N. M., Candidate of Technical Sciences; Sakolova,

A. M., Engineer

TITLE:

An Examination of the Properties of the Metal of Welding

Seams Made in Carbon Dioxide by Sv-08GSA and Sv-08G2SA Wires

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 5, pp 7-12 (USSR)

ABSTRACT:

In 1956, TsNIITMASh developed the Sv-08GSA and Sv-08G2SA electrode wires for welding steel in CO_{2} . In comparison with the Sv-10GS and Sv-08GS wires previously used, the new electrode wires contain an increased amount of manganese and less aluminum. In the work described in this article, the properties of welded joints made with these wires (produced by TU-2-57 Mosgorsovnarkhoz) on a series of carbon and low-alloy steels is examined. The welding was carried out with electrode wires 2 mm in diameter and having a gas consumption of 1200 litres per hour. Nutritive carbon dioxide, specified in GOST 8050-56, was used. As a result of these investigations the following conclusions were drawn: 1) the electrode wires can be used for welding carbon and several low-alloy construction

Card 1/2

sov/135-59-5-3/21

An Examination of the Properties of the Metal of Welding Seams Made in Carbon Dioxide by Sv-08GSA and Sv-08G2SA Wires

steels in CO_2 ; 2) the metal of the welded seam combines strength, ductility and high resilience at room and low temperatures and after mechanical aging; 3) the quality of nonmetallic impurities contained in seams made with these wires was less than in seams made under flux by high-quality electrodes and in CO_2 with powder wire. It can be further mintrodes and in CO_2 with powder wire. It can be further mintrodes by reducing the amount of aluminum in the electrode wire. There are 10 tables, 3 photos, 2 graphs and 8 references, 6 of which are Soviet and 2 British.

ASSOCIATION: TENLITMASH

Card 2/2

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\$/135/60/000\012/006\010 A005/A001

AUTHORS:

Brinberg, I.L., Candidate of Technical Sciences, Scholova, A.M.,

Engineer

TITLE

Welding in Carbon Dickide

FERIIDICAL:

Swarochneye proizvodstvo, 1960, No., 12, pp. 23-26

The authors report on a series of semi-automatic and automatic Machines for welding in CO2, shown in a special exhibition. The NFW -3 (FGSh-3) semi-automatic machine for welding in CO2 operates with a wire of 1.6.2 mm in diameter, on 250-500 amp current, in lower and inclined position; its efficiency is up to 50 kg weld metal per shift. The NH -5 (FSh.5) semi-automatic machine was modified by replacing the holders by gas-electric burners and by introducing a tarbin dioxide feed system; the machine operates with 1.6.2 mm.diameter.wire on 250.500 amp current. The A-547p (A-547r) semi-automatic machine operating with 0.6-1.2 mm-diameter-wire and 20-200 amp surrent san be used for welding in CO2 of this metals in all spatial positions. The application in enipositions is demonstrated in a ship model. The [].130 (F-130) automatic machine for welling with a 0.8% mm-diameter-wire 0.5-2 mm thick meta. Is fed from a θC .130/ 20

Card 1/7

854 25 s/135/60/000/012/006/010 ACC6/ACC1

Welling in Carten Diexide

(V) 130/20) relensum rectifier it is employed for one repair of automobile partitude. The MANT 300 (PDF) 300) semi-altomatic machine (Figure 4) operates with 0.8.2 mm diameter wire on 60 to 500 amp ourrest. Welding can be performed in all sparial positions and can be effectively used for welding up cast defects. The ΑΠΠΓ 500 (ADE3.500) automatic machine (Figure 5) is intended for and welding of steel in CO2 with a wire of C 8-2.5 mm in diameter and 60 to 500 amp gurrents angular and cutt welds in the lower position can be produced. The AAK 1500-3 *ADM 500.3 autimatic machine (Figure 6) is used for welding in shielding gases or under flux circular seams of 75 to 300 mm in diameter in horizontal or inclined position of the table. Welding is performed with wire of 1,6.2.5 mm in diameter or up to 500 amp current. The Pi-912 (R-912) stand is used to produce cincular seams of 6 to 200 mm in diameter with a vertical retarior axis. Automatic welding in CO₂ is made with a wire of O₂5 1.2 mm in diameter on hC to 200 amp current. The stand is employed in large-state production for welding on O₂0 funcel times, and lids if electric contacts to compressing both ms. The P=964(R 964) welding machine (Figure 7) is used . Freque automatically circular seams on parts of up to 300 mm in diameter with a horizontal rotation axis, with a wire of 0.5 1.2 mm in diameter. The matrine is equipped with two welding heads. making presible or produce simultaneously two seams. The unit is employed to weld

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850,69 s/135/60/000/012/006/010 A006/A001

Welding in Carbon Dioxide

automobile Cardan shafts. The 7-899 (R-899) stand is intended for the automatic assembly and welding in CO2 of thin-walled steel spheres of 200 mm in diameter, with 0.8-1.2 mm diameter wire on 70-150 amp current. The efficiency of the stand 13 25-70 items per hour. The multi-purpose (-55 (S-55) unit (Figure 8) is used to produce circular seams on tubular work with a horizontal and vertical rotation axis. Seams of 20 to 100 mm in diameter can be welded on 200-300 mm long pipes (on roller supports) of up to 300 mm in diameter in a horizontal plane. Wire of 0.8 to 1.2 mm in diameter is used. The multi-purpose \$6/4-2 (USA-2) apparatus (Figure 9) is intended for automatic, semi-automatic and electric-rivet welding in shielding gas or under flux. A wire of 0.8 to 3 mm in diameter and 100-600 amp current is used. The unit includes an electric-riveting head with automatic electrode wire feed and precision measuring out of welding time, performed by an electronic time relay. The described processes can be performed with the use of a number of wires developed for this purpose including the (6-08/C (Sv-08GS) -08 2C (SV-08G2S) (G-10 XF 2C (SV-10KhG2S) CG-08 X 3F 2CM (SV-08Kh3G2SM) 6-08 X [264(Sv-08khg2SM) C6-08x [2612(Sv-08khg2SMF) 6-08 X 14[(Sv-08kh14GT) and 6-10/17: (Sv-10Kn17T) wires. These wires are employed for welding carbon and alloyed steels in CO2 and have been included into GOST 2246-60. A method is demonstrated of obtaining CO2 from dry ice by evaporation in gasificators.

Card 3/7

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S/135/60/000/012/006/010

Welding in Carbon Dioxide

The CO_2 thus obtained has high purity and a low water vapor content. The use of the described methods of welding in CO2 is demonstrated on a series of welded articles, such as steam turbine diaphragms, and other turbine parts, automobile parts, ship and agricultural machine components, boilers and oil containers, blast furnace parts and pipelines. The method ensures a raised labor efficiency and savings amounting to 50 to 90,000 rubles yearly per one automatic machine and to 25-35,000 rubler per one semi-automatic unit.

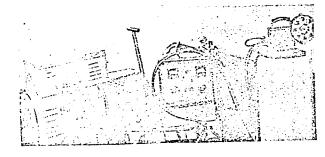
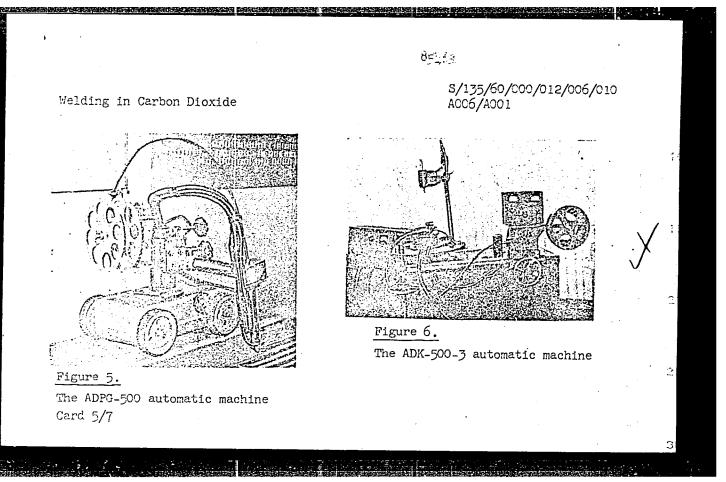
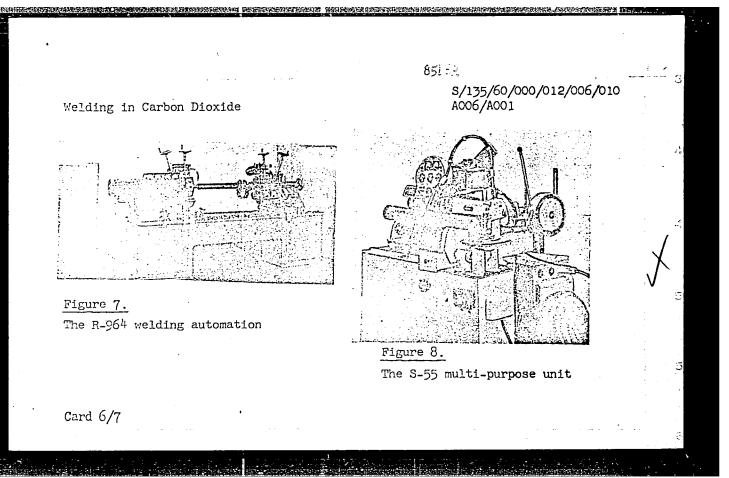


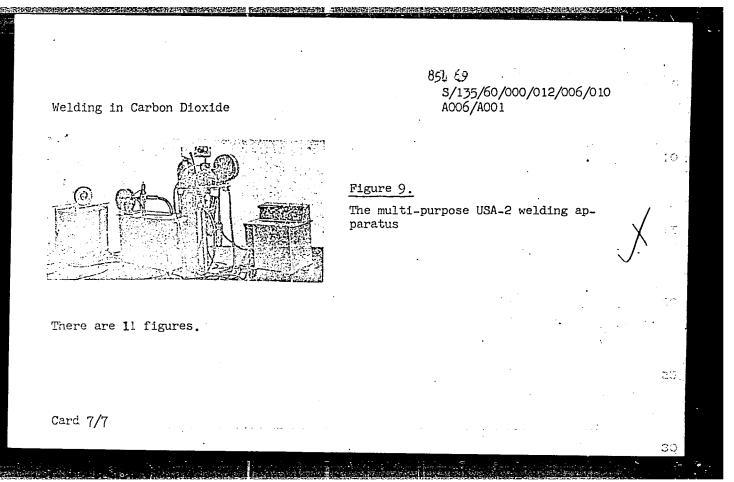
Figure 4. The PDPG-300 semi-automatic machine.

Card 4/7

CIA-RDP86-00513R001652110010-4" **APPROVED FOR RELEASE: 08/25/2000**







NOVOZHILOV, N.M., kand.tekhn.nauk; SOKOLOVA, A.M., inzh.

Quality and composition of sulfide inclusions in the weld metal during arc welding. Svar. proizv. no.3:12-16 Mr '63. (MIRA 16:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

(Electric welding) (Steel--Inclusions)

NOVOZHILOV, N.M., kand. tekhn. nauk; SOKOLOVA, A.M., inzh.

Amount and composition of oxide inclusions in the joint metal during arc welding. Svar. proizv. no.8:16-19 Ag '63. (MIRA 17:1)

BELLING PERCENTION OF THE PERCENTION OF THE PROPERTY AND THE PERCENTION OF THE PERCE

l. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

SOKOLOVA, A. N., ed.

N/5 615.901 .SE

Lit'ye povyshennoy tochnosti Casting with increased precision Moskva, Mashgiz, 1958.

196 p. illus., diagrs., graphs, tables (Nauchno-tekhnicheskoye Obshchestvo Mashinostroitel'noy Promyshelmosti. Leningradskoye Oblastnoye Prayleniye, Kniga, 45) Includes references.

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SOUCLOVA, A.N.

Effect of lowered temperatures on the development of chicks.
Uch.zap.Len.un. no.165:248-255 '53. (MIRA 7:7)

1. Laboratoriya genetiki zhivotnykh kafedry genetiki i selektsii
(zaveduyushchiy kafedrey professor N.V. Turbin)
(Paultry) (Cold-Physiological effect)

SOKOLOVA, A.N.

Breeding poultry for high productivity and resistance to cold.
Ptitsevodstvo 8 no.9:26-29 S '58. (MIRA 11:10)

1.Severo-Zapadnyy nauchno-issledovatel'skiy institut sel'skogo khozynystva.

(Foultry breeding)

DINEMESHTEYN, L.V.; SOKOLOVA, A.P.; SHIRMAN, A.M.

Problem of late sequelae following a craniccerebral trauma in early childhood. Zhur. nevr. i psikh. 64 no.7:1058-1064 '64.

(MIRA 17:12)

1. Otdel patomorfologii tsentral'noy nervnoy sistemy (zaveduyush-chiy- kand. med. nauk A.P. Sokolova, nauchnyy konsul'tant - prof. A.P. Avtsyn) Nauchno-issledovatel'skogo instituta psikhiatrii (direktor - prof. D.D. Fedotov) Ministerstva zdravookhraneniya RSFSR, Moskva.

SOKOLOVA, A.P.

Reaction of Alos extracts therapy of chronic pneumonia in children to monocytic reaction. Vopr. pediat. 20 no. 3:57-63 May-June 1952. (CIML 22:4)

1. Of Gor'kiy Oblast Scientific-Research Institute (Director -- A. A. Prokof'yev; Scientific Supervisor -- Prof. F. D. Agafonov).

NIKONOVA, Ye.A.; SOKOLOVA, A.P.; GURVICH, L.Z.

Determination of the average degree of polymerization of cellulose in the complex solution iron - tartaric acid - sodium hydroxide. Khim.volok. no.3143-44 '62.

(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyanogo volokna.

(Cellulose) (Polymerization)

SOKOLOVA, A.S.

Treatment of gynecological patients at Ayak-Kalkan Mineral Springs. Trudy Inst.kraev.pat.AN Kazakh. S.S.R. 11:109-117
'62. (MIRA 16:4)

(GYNECOLOGY)

(ALMA-ATA PROVINCE-BATHS, MEDICATED)

1. MATVEYEV, P. N.; SOKOLOVA, A. S.; MASYAGIN, A. V.; KUZNETSOV, V. P.

- 2. USSR (600)
- 4. Hulls (Naval Architecture)
- 7. Review of B. N. Smolyakov's "Increasing the strength of vessels." Reviewed by B. N. Matveyev, A. S. Sokolova, A. V. Masyagin, V. P. Kuznetsov. Rech. transp. 21 no. 6 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl

FILIN, Anatoliy Petrovich; SOKOLOVA Antonic Station, KALININ, V.S., redaktor; VOLCHOK, K.M., tekhnicheskiy redaktor

[Structural mechanics in shipbuilding] Stroitel'nsis mekhanika korablis. Leningrad, Izdavo "Rechnoi transport," Leningr. otdnie. Pt.1. [Bending and strength of rods and rod systems]

Izgib i ustoichivost' sterzhnei i sterzhnevykh sistem. 1957.

(MIRA 10:11)

(Structures, Theory of) (Naval architecture)

HELKIN, V.P., doktor tekhn.nauk, prof.; HEL'GOVA, M.A., kand.tekhn.nauk; KOVALEVSKIY, G.V., kand.tekhn.nauk; MASYAGIN, A.V., kand.tekhn.nauk; NEBYLOV, V.M., kand.tekhn.nauk; RYABOV, L.I., kand.tekhn.nauk; SIVERS, N.L., kand.tekhn.nauk; SOKOLOVA, A.S., kand.tekhn.nauk; TAUBIN, G.O., kand.tekhn.nauk; KONTOROVICH.B.M., inzh.

"Designing ships' hulls" by A.A. Pravdin. Reviewed by V.P. Belkin and others. Sudostroenie 24 no.8:78-79 Ag '58. (MIRA 11:10)

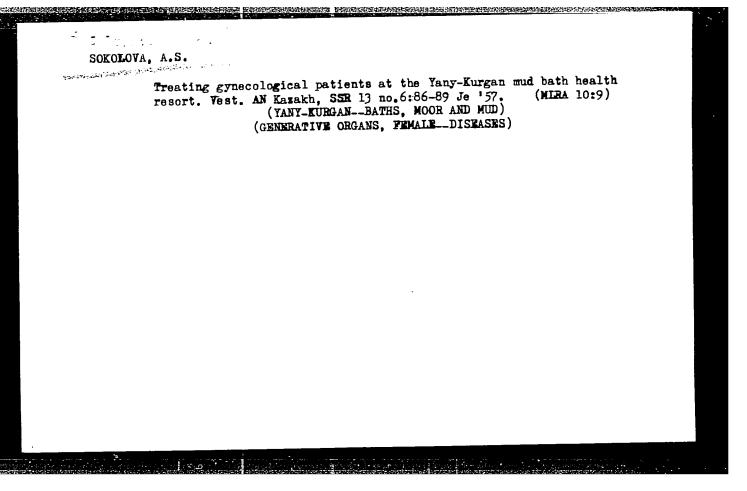
(Hulls(Naval architecture))

SOKOLOVA, A.S.

Characteristics of obstetrical and gynecological patholoy in patients with latent brucellosis. Trudy Inst.kraev.pat.AN
Kazakh SSR 12:214-219 '62. (MIRA 15:11)
(GENERATIVE ORGANS, FEMALE_DISEASES)(BRUCELLOSIS)

SOKOLOVA, A. S., Gand Med Sci — (diss) "Therapeutic multiples of the mud of Teresken Lake and treatment of gynecologic patients at the Yany-Kurgan health resort." Alma-Ata, 1957. 13 pp (Inst of Physiology, Inst of Medical Pathology, Inst of Clinical and Experimental Surgery, Acad Sci Kazakh SSR), 120 copies (KL, 15-58, 119)

-85-



Permeability of rabbit vaginal mucose by phosphorus salts and calcium [with summary in English]. Akush. i gin. 33 no.2:72-74 Mr-Ap '57. (MLRA 10:6) 1. Iz Instituta krayevoy patologii (dir. B.A.Atchabarov, nauchnyy rukovoditel' - prof. Ya.S.Rlenitskiy) Akademii nauk Kazakhskoy SSR. (VAGINA, physiol. permeability of mucosa for phosphates & for calcium) (PHOSPHATES, metab. permeability through vaginal mucosa in rabbits) (CACLIUM, metab. same)

SOKOLOVA, A.S.

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1. Iz Instituta krayevoy patologii Akademii nauk Kazakhskoy SSR (dir. B.A.Atchabarov, rukovoditel' - prof. Ya.S.Klenitskiy) (TERESKEN, LAKE-ESTROGENS)

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Changes in the vaginal microflora of gynecological patients treated with mud baths at the Yany-Kurgan health resort. Trudy Inst. kraev. pat. AN Kazakh. SSR 7:110-114 '59. (MIRA 13:3) (YANY-KURGAN-BATHS, MOOR AND MUD) (VAGINA-BACTERIOLOGY)

(MIRA 13:3)

SOKOLOVA, A.S.

Changes in the interoception of the genitalia in gynecological patients treated with mud baths at the Yany-Kurgan health resort. Trudy Inst.

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kraev.pat. AN Kazakh. SSR 7:115-120 '59.
(YANY-KURGAN-BATHS, MOOR AND MUD)
(GENERATIVE ORGANS, FEMALE-INNERVATION)

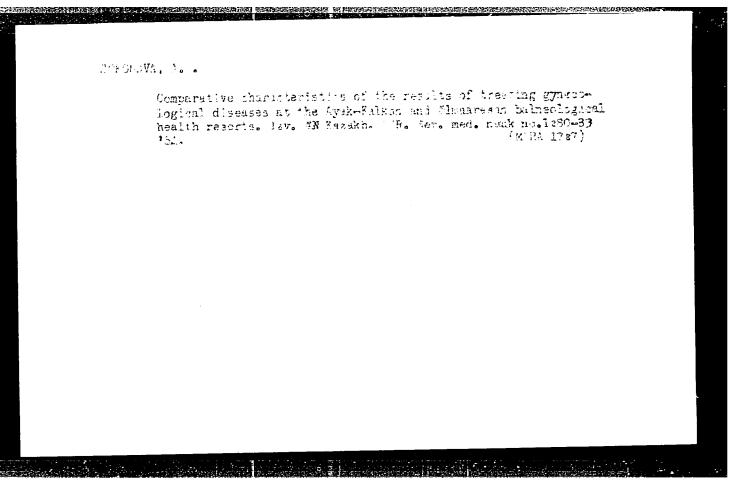
ZAMYATIN, Sergey Ivanovich; SOKOLOVA, Anfisa Sergeyevna; ZAPLAVNOV, O.V., red.; ROROKINA, Z.P., tekhn. red.

[Health resort of Yany-Kurgan] Kurort IAny-Kurgan. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1961. 36 p. (MIRA 14:10) (YANY-KURGAN—HEALTH RESORTS, WATERING PLACES, ETC.)

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SOKOLOVA, A.V., kandidat meditsinskikh nauk, redsktor; MOGILETSKIY, B.,
tekniicheskiy redsktor

[Odessa health resorts; a reference manual] Kurorty Odessy; spravochnik, [Odessa] Odesskoe obl. izd-vo, 1955, 141 p. (MIRA 9:10)

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[Craters on fire] Kratery v ogns. Hoskva, Gos.izd-vo geogr.

lit-ry, 1958. 174 p. Trenslated from the French. (MIRA 12:12)

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shkols 17 no.6:47-48 N-D '62. (MIRA 16:1)

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SOKOLOVA, A.V.

Practical experience in the spectroscopic laboratory of a steel wire mill. lzv.AN SSSR.Ser.fiz.19 no.2:173-174 Mr-Ap '55.

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9. Monthly List of Russian Accessions, Library of Congress, September 195% 2 Jincl.

- 1. SOKOLOVA, A. V.
- 2. USSR 600
- 4. Nervous System
- 7. First lessons on the subject Nervous system, Est. v shkole, No. 1, 1953.

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Some observations on teaching the subject "the mammalian class." Est.v shkole no.6:57-60 '53. (MLRA 6:10)

1. Shkola no. 193 g. Moskvy.

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N-D 154.

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(Iakhontov, Aleksandr Aleksandrovich, 1879-
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(Anatomy, Comparative)
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Mathods and methodical practices in developing botanical concepts.

Biol. v shkole no.1:22-27 Ja-F '58. (MIRA 11:1)

1. Shkola No.193 g. Moskvy.
(Botany--Study and teaching)

SOKOLOVA, A.V., zasluzhennaya uchitel'nitsa shkoly RSFSR

Agricultural work of eighth-grade students of urban schools. Biolov shkole no.3:28-33 My-Je '60. (MIRA 13:7)

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Preparing students of primary grades for the study of biology. Biol.v shkole no.4:7-9 J1-Ag 160. (MIRA 13:7)

 Srednaya shkola RSFSR No 192 goroda Moskvy. Delegat Vserossiyskogo sⁿyezda uchiteley. (Biology--Study and teaching)

SOKOLOVA, A.V., zasluzhennaya uchitel'nitsa shkoly RSFSR; USOL'TSEVA, A.S., uchitel'nitsa (Moskva)

Organizing evening meetings and exhibitions on scientific and atheistic tops. Biol. v shkole no.2:35-38 Mr-Ap 61. (MIRA 14:3)

(Atheism-Study and teaching)

(Science-Study and teaching)

SOKOLOW., A.V., cashushennaya uchitel'nitsa shkoly RSCUR (Moskva)

Atheistic training during biology lessons in eightyear schools. Biol. v shkole no.6:16-21 M-D '61.
(MIRA LV:11)

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(Antheism—Study and teaching)

"Methods of teaching human anatomy and physiology" by
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(Physiology—Study and teaching)

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(Suyorova, P.I.)

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Man and plants; a Pioneer meeting. Biol. v shkole nc.3:68-69
My-Je '63. (MIRA 16:10)

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SOKULOVA, N.I., SOKOLOVA, A.V., fitopatolog

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BLYAKH, G.I.; GORELKINSKIY, Yu.V.; GRINMAN, I.G.; SOKOLOVA, A.Ya.; SHULYAR, B.N.

Automatic titrimeter. Zav.lab. 26 no.12:1426-1429 '60.'

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1. Institut yadernoy fiziki AN KazSSR. (Titrimeters)

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Reactions of oxides of higher unsaturated acids with lithium aluminum hydride. Part 1: Oxides of oleic and petroselinic acids. Zhur. ob. khim. 31 no.2:652-656 F '61. (MIRA 14:2)

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(Oleic acid) (Petroselinic acid)
(Aluminum lithium hydride)

PIGLETVSKIY, G.V.; SCICLOVA, A.Ye.

Reactions of onices of higher unsaturated acids with lithium aluminum lightide. Port 2: Oxide of methyl erucate. Zhur. ob. Minn. 31 no. 2:555-55 F '51. (MINA 14:2)

1. Leningradskiy gosud retvennyy universitet. (Arreic acid)

PIGULEVSKIY, G.V.; SOKOLOVA, A.Ye.

Catalytic hydrogenation of petroselinic Hydroxy acids. Zhur prikl khim. 36 no 2:455-456 F 163. (MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet.
(Petroselinic acid)

PIGULEVSKIY, G.V.; SONCLOVA, A.Ye.

Reduction of oleic acid oxide and oleyl alcohol oxide by lithium aluminum hydride. Zhur. ob.khim. 34 no. 5x1627.1651 My '64.

Reduction of petroselinyl and erucyl alcohols by lithium aluminum hydride. Ibid.:1651-1655 (MIRA 17:7)

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SOKOLOVA, E. V. Cand Med Sci -- (diss) "On clinical peculiarities of depressive-paranoid schizophrenia." Mos, 1956. 14 pp (Min of Health REFERZE USSR. Central Inst for the Advanced Training of Physicians), 200 copies (KL, 36-58, 116)

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SOKOLOVA, B.V. (Moskva)

Complications in antabuse treatment. Trudy Gos. nauch.-issl. inst. psikh. 38:344-354 '63 (MIRA 16:11)

KAKCYSKIY, I.A., GOLOVIN, A.A., KARASEV, K.A., SOKOLOVA, D.D.

Methods of treating oxidized gold ores containing selenium. Obog.
rud 2 no. 6:31-34 '57.

(Gold ores)

(Ore drossing)

(Selenium)

CIA-RDP86-00513R001652110010-4 "APPROVED FOR RELEASE: 08/25/2000

5(4)

AUTHORS: Sokolova, D. F., Morozov, N. M., SOV/76-33-2-37/45

Temkin, M. I.

TITLE:

Kinetics of Ammonia Synthesis at Low Pressure and Under Conditions of Diffusion Retardation (Kinetika sintera ammiska pri nizkikh davleniyakh v usloviyakh diffuzionnogo tormozheniya)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 471-479 (USSR)

ABSTRACT:

The question of the influence of diffusion phenomena on the rate of synthesis of ammonia was investigated for the first time by V. A. Royter (Ref 1), and the most recent experiments on this question (Refs 2-7) have showed that the diffusion retardation must absolutely be considered. Investigations on the role of the diffusion factors in the ammonia synthesis were carried out by V. N. Shishkova, I. P. Sidorov and M. I. Tenkin (Ref 9) at pressures of 100-300 atm using industrial catalysts and the flowing-through-circulation method. The present paper shows that the character of the diffusion process in this latter type of investigation is different at atmospheric or lower pressures than at high pressures. As opposed to the

Card 1/3

Kinetics of Ammonia Synthesis at Low Pressure and SOV/76
Under Conditions of Diffusion Retardation

SOV/76-33-2-37/45

method in reference 8 the flowing-through-circulation system has two circulation cycles (Fig 1). The reaction rate was determined from an amount of ammonia frozen out of a supplementary cycle. The catalyst used was a melted magnetite which had been treated with a nitrogen-hydrogen mixture and which had ${\rm Al}_2{\rm O}_3$ and ${\rm K}_2{\rm O}$ added to it. The experiments were carried out by using a nitrogen-hydrogen mixture (in stoichiometric ratio) at 350-5000 and with pressures of 1.0, 0.5 and 0.25 atm at various rates of diffusion (Table 1). The reaction kinetics were investigated in the diffusion area on a uniformly spherical catalyst (diameter = 1.2 cm) at 50-500° C and the above mentioned pressures with a rate of gas diffusion of 3000 - 15000 hour 1. The experiments indicate two limiting cases for the course of the reaction: in terms of kinetics (small-grained catalyst) the yield of the catalyst is proportional to its volume and in terms of the inner diffusion (coarse-grained catalyst) the yield is proportional to the outer surface of the catalyst particle. A comparison of the results obtained with the small-grained catalyst (Table 3)

Card 2/3

Kinetics of Ammonia Synthesis at Low Pressure and SOV/76-33-2-37/45 Under Conditions of Diffusion Retardation

with those obtained with the coarse-grained catalysts yield the value of $D^* = 1.10^{-2} \text{ cm}^2/\text{sec}$ for the effective diffusion coefficient of ammonia in the catalyst pores, according to equation (14) and at 1 atm pressure. This value apparently corresponds to the transformation range between the Knudsen and the usual diffusion, and defines the limit of kinetic

diffusion. Using D* the maximum diameter of the catalyst which will still allow the synthesis to proceed without retardation can be calculated:

 $a_{limit} = \sqrt{D^* \sigma} (\sigma = time of contact)$

There are 2 figures, 3 tables, and 13 references, 10 of which are Soviet.

Akademiya nauk SSR, Fiziko-khimicheskiy institut im. ASSOCIATION:

L. Ya. Karpova Moskva (Academy of Sciences, USSR Physical-

Chemical Institute imeni L. Ya. Karpov, Moscow)

SUBMITTED: August 7, 1957

Card 3/3

s/191/62/000/003/003/010 B101/B147

AUTHORS: Sokolova, D. F., Tarakanov, O. G.

TITLE: Gelatinization of polyvinyl chloride pastes

PERIODICAL: Plasticheskiye massy, no. 3, 1962, 5-7

TEXT: In connection with the problem of production of foamed plastics, the authors studied the gelatinization of the polyvinyl chloride (PVC) resins Igelit F and P (Eastern Germany), Vestolit P (Federal Republic of Germany), and the Soviet type M(M), as well as of vinyl chloride (VC) copolymers with (10-15%) acrylonitrile (I); methacrylic acid (II); methacrylate (III); or vinyl acetate (IV). These copolymers were synthesized by emulsification in aqueous phase at 12 atm, 60°C, for 10 hrs. The total monomer-to-H2O ratio was 1:3, ammonium persulfate served as initiator (0.5% by weight of the monomers); MK (MK) emulsifier (0.5% by weight of the aqueous phase) was used since gelatin yielded poorly soluble copolymers. VC copolymers with I and II were unsoluble in dioctyl phthalate (DOP). A 10% paste of the other resins in DOP was heated, the viscosity, q, versus temperature was plotted, and maximum viscosity was Card 1/2

Gelatinization of polyvinyl ...

S/191/62/000/003/003/010 E101/E147

determined as gelatinization temperature. The temperature at which transparency occurred was also measured. For commercial resins, the gelatinization temperature was 112-129°C, for the copolymer with III 61°C, for the copolymer with IV 60°C. Also in tricresyl phosphate, the gelatinization temperature of the VC + IV copolymer was about 50°C below that of pure PVC. The gelatinization temperature of commercial PVC showed a direct dependence on the molecular weight: it increased with increasing viscosity of the 1% solution in dichloro ethane. On Igelit F reprecipitated from dichloro ethane by methanol and dried at different temperatures, and increase in gelatinization temperature (by 28°C) was observed at elevated drying temperature. The decrease in gelatinization temperature of Igelit dried at 170°C is explained by structural changes. There are 2 figures, 4 tables, and 7 references: 3 Soviet-bloc and 4 non-Soviet-bloc. The reference to the English-language publication reads as follows: Aimi Misanori, Japan Plast., 9, no. 4, 14 (1958).

Card 2/2

Mays of lowering production costs. Gidroliz. i lesckhim.

prom. 16 no.4:21-22 '63.

1. Saratovskiy gidroliznyy zavod.

(Costs, Industrial) (Hydrolysis)

L 19018-63

BDS/EWT(1)/FCC(w) AFFTC/ASD/IJP(C)

ACCESSION NR: AP3007523

\$/0181/63/005/009/2717/2719

AUTHOR: Bonch-Bruyevich, V. L.; Sokolova, E. B.

TITLE: On one possible recombination mechanism

SOURCE: Fizika tverdogo tela, v. 5, no. 9, 1963, 2717-2719

TOPIC TAGS: recombination mechanism, exciton capture, localized exciton state, semiconductor theory, negatively charged capture cen-

ter, electron capture mechanism

ABSTRACT: The results of experiments performed in the last few years on recombination at multicharged centers showed that the cross sections of electron capture by negatively charged centers are unexpectedly large. This led to the conclusion that it is not the electron that is captured but a neutral product, an exciton, 1 In the first stage of such a capture, an electron and a hole produce an exciton. If there is an impurity, the second stage consists in the capture of the exciton and its transition to a localized state associated with the impurity. The concept of such localized states was introduced by various authors, and they were observed experimentally

Card 1/2.

L 19018-63

ACCESSION NR: AP3007523

A simple analytical expression is derived to deduce the behavior modes of localized excitons which might be verified experimentally. It was found that a nonmonotonous temperature dependence, for which there is no physical basis, must be ascribed both to the probability of exciton decay and to the probability of exciton release from the trap per unit time. Furthermore, the dependence of the lifetime on the concentration of basic carriers, resulting from the formula, does not agree with experimental results. Thus, the theoretical formulation of a recombination mechanism based on intermediate excitons does not satisfy the experiments. In principle, however, such a mechanism is not impossible and should be taken into consideration during interpretation of experiments. Orig. art. has: 2 formulas.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 28Apr63

DATE ACQ: 140ct63

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Card 2/2

L 38534-65 EWA(h)/EMA(c)/EWT(1)/EWT(m)/EWP(b)/T/EWP(t) Pz-6/Peb IJP(c) AT/
ACCESSION NR: AP5005289 JD S/0181/65/007/002/0489/0495

AUTHOR: Sokolova, E. B.

TITLE: Concerning the optical properties of dislocations in semiconductors 21

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 489-495

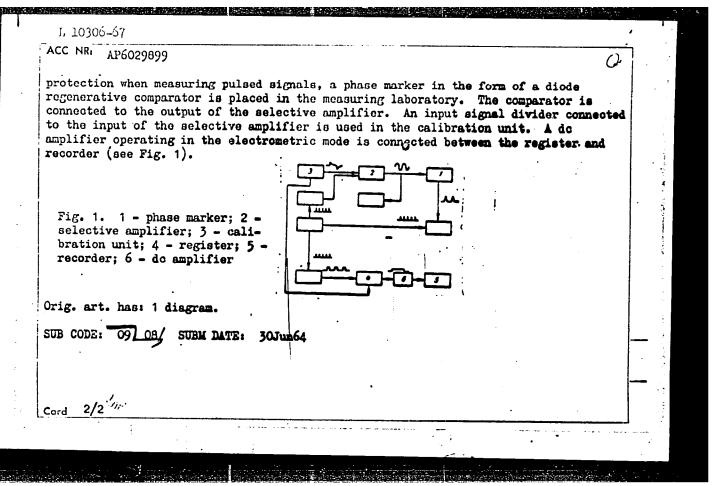
TOPIC TAGS: germanium, optical property, dislocation, semiconductor, radiative recombination, absorption line, emission line

ABSTRACT: In view of the lack of a theory explaining the recombination radiation connected with the presence of dislocations in germanium, the authors consider the optical properties of linear dislocations in semiconductors such as germanium on the basis of a well-known simple model, wherein the dislocations with the acceptor levels captured on it by the electrons consititute a negatively charged line surlevels captured on positive space charge. The coefficient of absorption and rounded by a region of positive space charge. The coefficient of absorption is the quantities characterizing the radiative recombination on the dislocations is the quantities characterizing the radiative recombination on the dislocations and attenuation of the radiation intensity with increasing depth in the specimen, and is calculated by the two-dimensional Green's function procedure. The emission and

Card 1/2

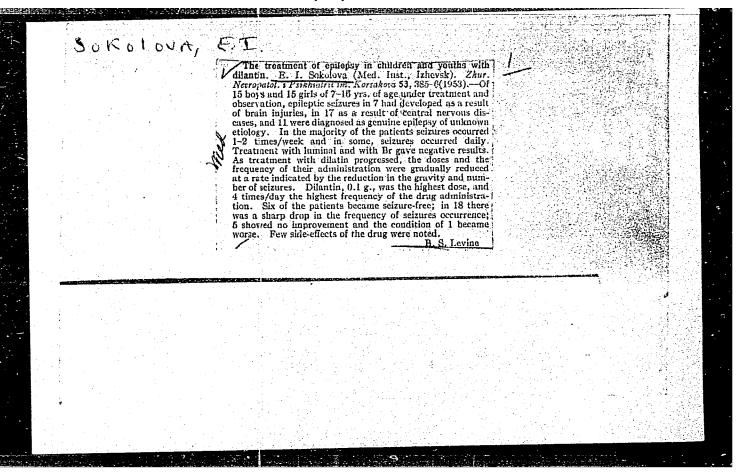
L 38534-65 ACCESSION NR: AP5005289 absorption line shapes are discussed. Estimates of the absolute quantities show that the absorption and emission by the dislocations under the prevailing dislocation densities in germanium are quite low, the maximum radiation per cubic centimeter amounting to approximately 105 quanta per second. "I thank V. L. Bonch-Bruyevich for guidance of the work." Orig. art. has: 3 figures and 24 formulas. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscov SUBMITTED: 28Jul64 ENCL: 00 SUB CODE: SS. OP NR REF SOV: 005 OTHER: 002 Card 2/2 n/p

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•••	Bozmik. I. A.; Bulnnov,	N. A.; Shenakara	М.;
ENTORS: Alekseyev,	A. M.; Bezruk, I. A.; Bulanov, ; Melikadze, S. Ye.; Chinareva zin, G. I. M.; Boltalin, A. P.;	Zlatkovich, L. A.; Iova,	.G. M.;
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Flactrocardiographic changes in serious forms of epidemic hepatitis and toxic dystrophy of the liver. Trudy LPMI 36: 177-186 '63. (MIRA 18:3)

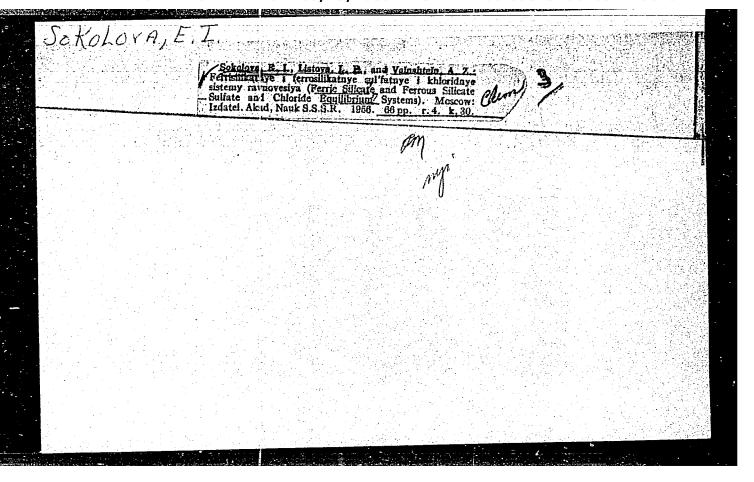
i. Bol'nitsa imeni Botkina v Leningrade (glavnyy vrach M.Y. Figurina, nauchnyy rukovodital' prof. Ye.S.Gurevich).



SOKOLOVA, E.I.

I Synthesis of itou(III) and leant II silicates. E. I. Sakolova, L. P. Listova, and A. L. Valashtein. Donisor And. lova, L. P. Listova, and A. L. Valashtein. Donisor And. lova, L. P. Listova, and A. L. Valashtein. Donisor And. lova, L. P. Listova, and A. L. Valashtein. Donisor And. lova & S.S. R. 96, 1223-8 [1954].—For the investigation of the low-temp, genesis of goethite, hydrogetaite, and of the chlorite-group minerals the following systems are studied: NaOH-Na;SiO;-Fe;CO,)-H,O; MgSO;-Fe;CO,-H,O; MaOH-Na;SiO;-MgSO;-Fe;CO,-H,O; MaOH-Na;SiO;-MgSO;-Fe;CO,-H,O; MaOH-Na;SiO;-MgSO;-Fe;CO,-H,O; MaSiO;-MgSO;-Fe;CO,-H,O; Ma;SiO;-MgSO;-Fe;CO,-H,O; Ma;SiO;-MgSO;-Fe;CO,-H,O; Ma;SiO;-MgSO;-Fe;CO,-H,O; Ma;SiO;-MgSO;-Fe;CO,-H,O; MgO, and Al;O; The duration of the exposures extended to 1 yr. and even more. The end products were identified by microscopic and x-ray methods, and assumed to be equil, products. The lower the conen. in SiO; and MgO in the soln. the longer time periods were necessary for the sedimentation of SiO; hydrogels from Na;SiO; solns, and of Mg(OH); from MgCl; solns, the first for pH = 2,80-0.30, and the latter, for pH = 6,0-10.5. The great dependence of the mineral pptn. from the conen. of the solns, is evident, not only that from pII and E_{II}. Also the character of the anions present in the solns, is important enough, e.g. for the pptn. from sulfate or chloride solns. (especially goethite and hydrogoethite). The ann. of SiO; pptd. from ferrisilicate systems is the far greater that that pptd. from a Ma;SiO; soln., by significant systems and in the presence of other cations in the soln, behaves differently from pure Mg ** salt solns.

weakly alk; π of the products are observed; (1) and high mark the action of the products are observed; (1) and high mark the action (17%); all have a good cryst dimity, n varying from 1.883 to 1.905 (goethite and hydrogoethile); (2) cryptocryst, silicates are observed if pH is neutral or weakly alk; π of the products varies between 1.906 and 1.725. From iron(III) chloride systems only for [1] = 5.0 to 5.5 pptns, are observed, with n = 1.750, Fee fig. 63 to 70%; SiO₂ from 18 to 23%, free Fe₂O₁ 25 to 30%, Iin) = 12%. Without Mg ++, a ferrisilicate of the approx, compn. 3Fe₂O₂.2SiA₂.5.5H₂O results, but of x-ray amorphous charter. With Mg ++ the products are well crystd. The darkgreen chlorite-like color of the ferrosilicates at pH = 5.45 to 6.5 is very characteristic; these products are easily oxidized by the air, but well crystd. The x-ray diagrams are not much different from true chlorites, especially in the lines 6.90; 7.2; 4.64 A., although the intensities are different. The chem, analyses of the products show variable ratios of RO/SiO₂ and R₂O₂/SiO₃, with tetrahedral Si varying from 4.0 to 3.16, i.e. the same ratios which have been discussed by Serdyuchenko for natural chlorites (C.A. 43, 524d). The Al-contg, products are nearly all x-ray amorphous and different from natural chlorites.



And the contract

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Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 80 (USSR)

AUTHOR: Sokolova, E. I.

TITLE: Certain Theoretical Aspects of Hydrometallurgical Extraction

of Lead From Ores That Are Difficult to Concentrate (Nekotoryye voprosy teorii gidrometallurgicheskogo izvlecheniya

svintsa iz trudnoobogatimykh rud)

ABSTRACT: Bibliographic entry on the author's dissertation for the de-

gree of Candidate of Technical Sciences, presented to the In-t

metallurgii AN SSSR (Institute of Metallurgy, Academy of

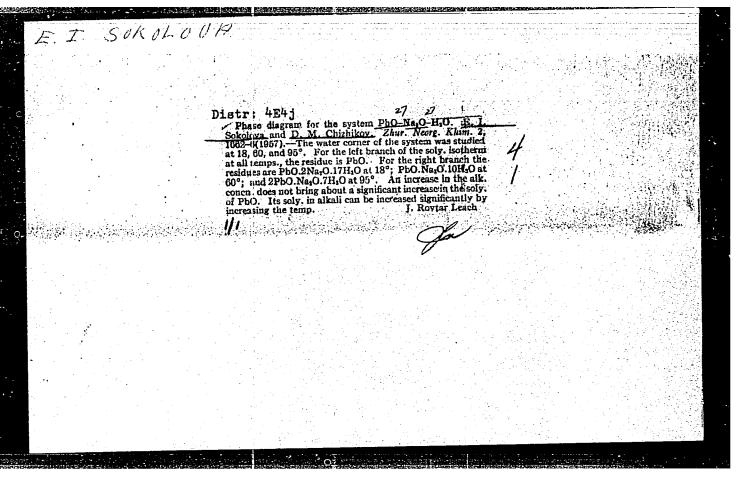
Sciences, USSR), Moscow, 1957.

ASSOCIATION: In-t metallurgii AN SSSR (Institute of Metallurgy, Academy

of Sciences, USSR), Moscow.

1. Lead ores -- Processing

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S/509/60/000/004/006/024 E021/E106

AUTHOR: Sokolova, E.I.

TITLE: Extraction of Lead from Minerals by Caustic Soda

Solutions

PERIODICAL: Akademiya nauk SSSR. Institut metallurgii.

Trudy, No.4, 1960. Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody issledovaniya, pp. 89-93

TEXT: The aim of the investigation was to find the optimum conditions for extracting lead from difficult ores using caustic soda. The minerals cerussite (71.88 Pb), beudantite (22.5% PbO) and mimetesite (66.9% PbO) were used. The experiments were and mimetesite (66.9% PbO) were used. The solutions obtained were analysed for lead and sodium carbonate. The results showed that the greatest rate of solution of cerussite in the range 42-225 g/litre sodium hydroxide was with a solution containing 136 g/litre. With increase in concentration above this value, the extraction of lead decreased, because the solubility of soda decreased. The extraction of lead from mimetesite was an optimum with 154 g/litre sodium hydroxide. Increasing the Card 1/3

S/509/60/000/004/006/024 E021/E106

Extraction of Lead from Minerals by Caustic Soda Solutions concentration from 154 to 300 g/litre resulted in a decrease in extraction. The extraction of lead from beudantite increased with increase in concentration from 68 to 300 g/litre sodium hydroxide. The relatively small quantity of lead extracted even with 300 g/litre (26.1%) was explained by the complexity and Studies of the strength of the crystal lattice of the mineral. effects of the time taken to extract the lead showed that the rate of solution of cerussite decreased with time. The quantity of lead extracted increased up to 60 minutes. For longer times there was practically no increase in the lead extracted. Studies of the effect of temperature showed that increasing the temperature of reaction from 60 to 90 °C increased the extraction Increasing the liquid:solid ratio from of lead from cerussite. 4:1 to 20:1 had very little effect on the amount of lead The extraction of lead from beudantite with 300 g/litre caustic soda at 90 °C with a liquid:solid ratio of 10:1 was 26.1% after 50 minutes. With 158 g/litre caustic soda,

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Extraction of Lead from Minerals by Caustic Soda Solutions

90-100 °C, and a liquid:solid ratio of 10:1, 59.2% lead was extracted from mimetesite after 60 minutes. With 136 g/litre caustic soda, 90 °C and a liquid:solid ratio of 20:1, 94.4% lead was extracted from cerussite in 30 minutes.

There are 1 figure, 6 tables and 4 Soviet references.

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